

AMENDMENTS TO THE CLAIMS

1-19. (Canceled)

20. (Currently Amended) A machine readable storage medium containing executable program instructions which when executed cause a digital processing system to perform a method of reacting a plasma with a substrate, comprising:

generating a plasma from nitrogen comprising radicals and nitrogen ions in a first chamber; and

transferring the plasma radicals via a distance equivalent to the lifetime of the nitrogen ions into a second chamber substantially free of nitrogen ions.

21. (New) The machine readable storage medium of claim 20, wherein the method performed by the digital processing system further comprises:

reacting the plasma radicals with a film on a substrate.

22. (New) The machine readable storage medium of claim 21, wherein reacting the plasma radicals with a film on a substrate comprises converting a portion of the film into a nitrogen-containing material.

23. (New) A machine readable storage medium containing executable program instructions which when executed cause a digital processing system to perform a method comprising:

generating a plasma from nitrogen comprising nitrogen radicals and nitrogen ions in a first chamber; and

transferring the plasma to a substrate site within a second chamber so that at the substrate site the plasma is substantially free of the nitrogen ions.

24. (New) The machine readable storage medium of claim 23, wherein the method performed by the digital processing system further comprises:

reacting the plasma radicals with a film on a substrate.

25. (New) The machine readable storage medium of claim 24, wherein reacting the plasma radicals with a film on a substrate comprises converting a portion of the film into a nitrogen-containing material.